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SENSOR SERIAL NUMBER: 0819
CALIBRATION DATE: 28-Dec-17

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.111786e-004
a1 = 3.343916e-004
a2 = -6.335784e-006
a3 = 2.563765e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	657292.5	1.0001	0.0001
4.5000	564484.3	4.4999	-0.0001
15.0000	364380.3	15.0000	0.0000
18.4999	316820.1	18.5000	0.0001
24.0000	255786.0	23.9999	-0.0001
29.0000	211818.3	28.9999	-0.0001
32.5000	186221.6	32.5001	0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1 / \{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

